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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/604,419	07/18/2003	Thomas J. Smith	FIS920030154	1418	
32074	7590 07/18/2006		EXAMINER		
INTERNA	INTERNATIONAL BUSINESS MACHINES CORPORATION			NGUYEN, DUC M	
DEPT. 18G					
BLDG. 300-	482		ART UNIT	PAPER NUMBER	
2070 ROUT	2070 ROUTE 52				
HOPEWEL	L JUNCTION, NY 1253	3	DATE MAILED: 07/18/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Supplemental	10/604,419	SMITH ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Duc M. Nguyen	2618				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT OF THE OFFICE OF UPON PETITION OF THE OFFICE OF UPON PETITION OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE O	OR REMAINS) CLOSED or other appropriate comn GHTS. This application is	in this application. If not included nunication will be mailed in due cou	ırse. THIS			
1. \boxtimes This communication is responsive to <u>5/5/06 and 6/1/06</u> .						
2. The allowed claim(s) is/are <u>1-19</u> .						
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperso 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the	on's Patent Drawing Review Amendment / Comment of the comment of	or in the Office action of the drawings in the front (not the ba FR 1.121(d).				
 DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F 			e the			
 Attachment(s) 1. ☒ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 7/18/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Paper No Paper No B), 7. ☐ Examiner	nformal Patent Application (PTO-1 Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowa				

Application/Control Number: 10/604,419

Art Unit: 2618

REASON FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

As to claims 1, 10, 11, the instant application directs to a non-obvious feature improvement over the invention described in cited prior art. The non-obvious feature comprises a quantizer operable to quantize an output of the high-speed data transmission circuit relative to a level of the plurality of reference voltage levels, and in combination with a clock generator operable to generate a clock having a transitioning time which is less than one quarter of a minimum switching period of the output of the circuit.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Information Disclosure Statement

- 2. The references listed in the information disclosure statements submitted on 7/18/03 has been considered by the examiner (see attached PTO-1449).
- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ghiasi et al (US 2004/0027993), Loop back testing structure for high-speed serial bit stream TX and RX chip set.

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Keller et al (US 2004/0135231), An arrangement for testing semiconductor chips while incorporated on a semiconductor wafer.

Yin et al (US 2004/0161070), System and method for testing the operation of a DLLbased interface.

Klement (US 4,371,850), High accuracy delta modulator.

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(571) 273-8300 (for formal communications intended for entry)

(571)-273-7893 (for informal or draft communications).

Hand-delivered responses should be brought to Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314.

Any inquiry concerning this communication or communications from the examiner should be directed to Duc M. Nguyen whose telephone number is (571) 272-7893, Monday-Thursday (9:00 AM - 5:00 PM).

Or to Edward Urban (Supervisor) whose telephone number is (571) 272-7899.

Duc M. Nguyen Frelight

Oct 26, 2005